

Off-Highway



Tribolab
ANÁLISIS DE FLUIDO Y SERVICIOS DE TRIBOLOGÍA

TRIBOLAB®
“will help you
avoid breakdowns
and reduce costs.”



Take a sample of the fluid, with the system operating in normal conditions.



Fill in the Tribolab® form corresponding to the Test it belongs to.



Send sample to Tribolab® to be analyzed.



Tribolab® records and analysis the sample, generating an e-report.



Tribolab® sends you an email report with the results. Customer evaluates recommendations.



Response time is 24 to 48 hr. Once the sample is registered in our laboratories.

Off-Highway machinery, such as equipment used for construction and agriculture. The recognized brands CATERPILLAR, JOHN DEERE, HYUNDAI, CASE, HITACHI, others, are operated and stored outdoors, thus facing a wide variety of extreme conditions, from heavy loads and high temperatures, to excessive wear, dirt and water contamination. Breakdowns generally occur far from any mechanic shop, which means repair is slow, expensive, and delays. Even so, the equipment is expected to function at optimal levels.

TRIBOLAB® will help you identify which components are about to fail, through routine fluid testing, we will discover contamination, fluid degradation and wear. With the information collected, it will be possible to avoid damage to equipment in the long term, maximize the reliability of the assets and allow the planning of maintenance shutdowns.

Benefits of Fluid Analysis in Off-Highway Equipment

- ✓ Allows you to select the appropriate lubricants, fuel and coolant, to improve the productivity of your operation.
- ✓ Optimize the lubricants performance.
- ✓ Increase equipment efficiency.
- ✓ Extension of service intervals.
- ✓ Improvement the useful life and equipment reliability.



www.tribo-labs.com

For more information you can contact us via email
info@tribo-labs.com

Diesel Engine

DIESEL FUEL ANALYSIS PACKAGES

TRIBO 5: Basic Diesel Fuel Analysis Test. Sample volume: 1 L

- Elemental Analysis by ICP (ASTM D5185)
- Water and Sediment (ASTM D2709)
- Bacteria, Fungi and Mold (Manufacturer)
- Soot % (ASTM E2412)
- ISO Particle Count (ISO4406.99)
- Pensky-Marten Flash Point (ASTM D3828)

TRIBO 6: Advanced Diesel Fuel Analysis Test.

Sample volume: 1 L

- Elemental Analysis by ICP (ASTM D5185)
- Pour Point (ASTM D7346)
- Water and Sediment (ASTM D2709)
- Bacteria, Fungi and Mold (Manufacturer)
- Thermal Stability (ASTM D6468)
- Viscosity (ASTM D445)
- PPM Sulfur (ASTM D7220)
- FBT (ASTM D2068)
- Flash Point (ASTM D3828)
- Cetane Index (ASTM D976)
- Cloud Point (ASTM D7689)
- Distillation (ASTM D7345)
- ISO Particle Count or Particle Quantifier (ISO4406.99)
- COPPER STRIP CORROSION (ASTM D130)

OIL ANALYSIS PACKAGE

TRIBO 4: Engine Oil Analysis Test. Sample volume: 100 ml

- 24 Metals by ICP (ASTM D5185)
- Viscosity @ 100°C (ASTM D445)
- Fuel Dilution % (ASTM D7593)
- % Soot (ASTM E2412)
- % Water by Crackle (Internal Method Tribolab)
- Base Number (ASTM DA4739)
- Oxidation / Nitration (ASTM E2412)

COOLANT ANALYSIS PACKAGES

TRIBO 8: Coolant Analysis Test. Sample Volume: 100 ml

- Visual (color, oil and/or fuel contamination, foam magnetic/non-magnetic precipitation and odor) (Internal Method Tribolab)
- pH (ASTM D1287)
- Glycol % (ETHYLENE OR PROPYLENE)
- Freeze Point (ASTM D3321)
- Boil Point (Internal Method Tribolab)
- Nitrite (Internal Method Tribolab)
- TDS (sólidos disueltos totales)
- Specific Conductance (Internal Method Tribolab)
- SCA # (Internal Method Tribolab)
- Total Hardness (Internal Method Tribolab)

Optimize the
Lubricants
performance of your
Off-Highway
equipment with the
fluid analysis.

Transmissions

TRIBO 1: Basic Industrial Oil Analysis Test.

Sample Volume: 100 ml

- 24 Metals by ICP (ASTM D5185)
- % Water by Crackle (Internal Method Tribolab)
- Viscosity @ 40°C or 100°C (ASTM D445)
- Acid Number (ASTM D664)
- Oxidation / Nitration (ASTM E2412)
- ISO Particle Count (ISO4406.99)

Hydraulic Systems

TRIBO 1: Basic Industrial Oil Analysis Test.

Sample Volume: 100 ml

- 24 Metals by ICP (ASTM D5185)
- % Water by Crackle (Internal Method Tribolab)
- Viscosity @ 40°C or 100°C (ASTM D445)
- Acid Number (ASTM D664)
- Oxidation / Nitration (ASTM E2412)
- ISO Particle Count (ISO4406.99)

TRIBO 2: Advanced Industrial Oil Analysis Test.

Sample Volume: 100 ml

- 24 Metals by ICP (ASTM D5185)
- % Water by Karl Fischer (ASTM D6304C)
- Viscosity @ 40°C or 100°C (ASTM D445)
- Acid Number (ASTM D664)
- Oxidation / Nitration (ASTM E2412)
- ISO Particle Count (ISO4406.99)

Gear Systems

TRIBO 1: Basic Industrial Oil Analysis Test.

Sample Volume: 100 ml

- 24 Metals by ICP (ASTM D5185)
- % Water by Crackle (Internal Method Tribolab)
- Viscosity @ 40°C or 100°C (ASTM D445)
- Acid Number (ASTM D664)
- Oxidation / Nitration (ASTM E2412)
- ISO Particle Count (ISO4406.99)

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